

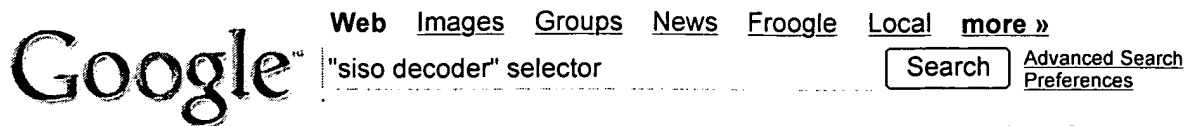
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a rate **selector** 174 receives The channel estimates and selects a rate For ...

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[0048] inputting from a **SISO decoder** a set of bit likelihood values l(C.sub. ...

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use the **SISO decoder** for the first constituent encoder to decode. the data. ...

1) Initialize the rate **selector**. and punc-. turing table ...

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stream feeds a symbol **selector** that maps each group of. consecutive bits into a complex ... [11]–[13], the data APPs generated by a **SISO decoder** are ex- ...

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... Page 14. 14 Fig. 5 : Schematic of the TTCM Page 15. 15 **selector** pattern 1 x 1 x

1 x x 1 x 1 x 1 Fig. 6 : Example of transmitter of TTCM Page 16. 16 ...

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69, and The deinterleaved sequence is decoded by The **SISO decoder** 63. ... 21A,

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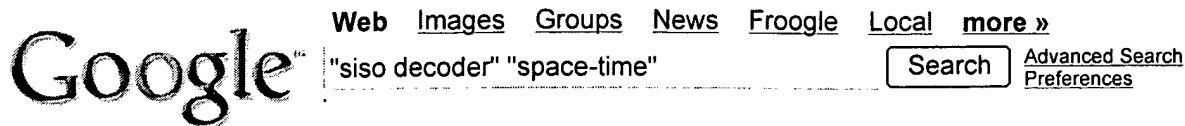
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[Paper] Implementation of Turbo Trellis-coded Modulation using ...

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selective **fading** channels," IEEE Comm. Letters, vol. 5, pp. 304-306, July 2001.

Configuration. E. b. / N. 0. **SI**SO. QPSK / AWGN. 1.8 dB. QPSK / PIRF ...

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Khan, Anwer Ali, May 2000
...4.2 Effect of **Fading** Rate...2.3 A rate 1/3 **turbo decoder**...estimators to the **fading** rate or to the...67 5.2 A **turbo decoder** with a trellis...Estimation Recall that a **turbo decoder** consists of two...output of the other **SISO** module, and the...channel gain or the **fading** amplitude, θ_i ...
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...outperform symbol-interleaved TCM on **fading** channels [2], [3]. The bit...achieving time diversity on **fading** channels. It concatenates the...sary soft-input soft-output (**SISO**) modules needed for itera...approach uses the original **Turbo decoder** with two **SISO** decoders. An- other approach...
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- ☐ **11. Third - Generation Systems and Intelligent** [PS-295K]
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...a wideband AQAM modem for transmission over the TU Rayleigh **fading** channel. The BPS throughputs of 1, 2, 4 and 6 represent BPSK...from the reduced co-channel interference and reduced multipath **fading** [18,19] upon using smart antennae may be exchanged for an increased...
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- ☐ **12. Iterative decoding and channel estimation over hidden Markov fading channels**
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- ☐ **13. Implementation of a turbo decoder on a configurable computing platform**
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 ...4.3: Memory map for **turbo decoder**...Resource utilization for **turbo decoder** implementation...information for the **turbo decoder**...List of Variables a **Fading** channel amplitude B...
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- ☐ **15. 2000 Conference on Information Sciences and Systems, Princeton University, March 1517, 2000 [PS-22K]**
 Aug 2001
 ... $i = 1; : : : N$ \Gamma_g passed from the **turbo decoder**. The symbol APP's are used to compute APP's...bits are deinterleaved and are passed to the **turbo decoder**. The **turbo decoder** works Rate 1/3 repetition code Interleaver...
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 ...practice, the effect of multipath, **fading**, timevarying channels and...a softinput softoutput (**SISO**) multiuser detector and a bank 1 of singleuser **SISO** channel decoders. For the single...turbo coding in a multipath **fading** channel is investigated. But...only the iteration inside **turbo decoder** will be used in order to reduce...
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- ☐ **17. Parameter selection at run-time to optimize energy efficiency [PDF-37K]**
 Jun 2002
 ...Computational complexity of **SISO** decoders A **turbo decoder** contains also two...tions needed for the **turbo decoder** per bit is about $n \dots$ receiver and fec **turbo decoder**, but also the fec...multiple users \cdot **fading** Wireless channel with...
[\[http://wwwhome.cs.utwente.nl/~smitl/pubs/Parameter_sel...\]](http://wwwhome.cs.utwente.nl/~smitl/pubs/Parameter_sel...)
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- ☐ **18. el-scale.PDF [PDF-14K]**
 Nov 2000
 ...Soft-out decoder (**SISO**) is the most important part of a **Turbo decoder**. The Max-Log-MAP...iterative manner. **SISO** decoding of the...Turbo codes and **Turbo decoder**, see [1]-[5]. Applying...uncorrelated Rayleigh **fading** is shown. An improvement...be implemented in **Turbo decoder** realizations for...

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☐ **19. Space - Frequency Turbo Coded OFDM** [PDF-31K]

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...against detrimental effects of **fading**, enable increased information...single-input single-output (**SI****SO**) channels. A number of transmit...channel creates an equivalent **SI****SO** channel with characteristics...high capacity of MIMO Rayleigh **fading** channels by jointly exploiting...resultant encoder and iterative (**turbo**) **decoder** operate on bit level. Symbol-to-bit...

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☐ **20. No Title** [PDF-26K]

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...inner decoder) TPC decoder (**SI****SO** outer decoder) **Turbo Decoder S**
 inner code n TPC/SPC D 2...BER K=512, R=0.5 PA, Indpt **Fading** simu, CSI
 simu, no CSI Divs...10-2 10-1 100 R=0.5 PA, Indpt **Fading**, CSI Eb/No (dB)
 BER Shannon...10-2 10-1 100 R=0.5 PA, Indpt **Fading**, No CSI Eb/No (dB)
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Aug 2002
...Soft-input/Soft-output (**SISO**) **decoder** Analog design of the **SISO decoder** Turbo product codes Encoder **Turbo Decoder** Comments & Conclusions...AWGN: Rayleigh flat-fading © 2002 Scaling the Input Input to the **SISO decoder** must be scaled: In...
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...61 5.1.1.2 **Turbo Decoder**...148 6.3 **TURBO DECODER** DESIGN...152 6.4.1 Soft values needed by **turbo decoder**...
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- ☐ 3. [turbo_equl_pragmatic \[PDF-42K\]](#)
Apr 2001
...Deinterleaver Demapping **Turbo Decoder** Bit-To- Symbol...decoding receiver **Fading** Channel AWGN The...of Log-MAP, in **turbo decoder**, we will apply...the output of the **SISO decoder** number x, DEC-x...sent to the other **SISO decoder** (DEC2) where they...bit received from **turbo decoder** into their corresponding...
[more hits from](#) [http://www.comlab.hut.fi/opetus/311/turbo_equl_pragmat...]
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- ☐ 4. [2000 Conference on Information Sciences and Systems, Princeton University, March 15-17, 2000 \[PS-22K\]](#)
Aug 2001
...system model that includes the **fading** channel, the overlapped block...differential encoder block **fading** channel channel interleaver...encoder channel interleaver **SISO decoder** transmit filter receive filter...we consider a block Rayleigh **fading** channel. We assume that the...
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- ☐ 5. [Iterative Multiuser Detection and Decoding for Turbocoded CDMA \[PS-29K\]](#)
Jan 2000
...**Decoder** Each user has its own **turbo decoder** and the structures of all...each other. For a particular **turbo decoder**, its inputs are the probability...turbo decoders. Besides, each **turbo decoder** consists of two **SISO decoder** modules which are separated...
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- ☐ **7. The Turbo Decoding Principle Tutorial Introduction and State of the Art** [PPT-2MB]
Nov 2001
...for Rician **Fading** X and Y are...Modulator **Turbo Decoder** De- interleaver...Codes The **turbo decoder** can also be...Estimated Data **Turbo Decoder** interleaver...Equalizer (Outer) **SISO Decoder** Estimated...s ith bit (**fading** ampltiude...
[http://www.csee.wvu.edu/~mvalenti/documents/prelim-val...]
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Sep 2002
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...computational-time efficient **turbo decoder** implementation on a reconfigurable processor is presented. The **turbo decoder** takes advantage of the latest...flexible, hardware embodiment of a **turbo decoder**, as described in this paper...
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- ☐ **10. Analysis of the Iterative Decoding of Product Codes Using the Gaussian Approximation** [PDF-19K]
Oct 2002
...noise (AWGN) and the Rayleigh **fading** channel are consistent with...soft- input/soft-output (**SISO**) **decoder**. Using the same idea, Pyn...R. Hammons, "Analysis the **turbo decoder** using the Gaussian approximation...and F. Pollara, "Iterative **turbo decoder** analy- sis based on density...
[http://viola.usc.edu/paper/GlobeCom2002/DATA/no0436.pd...]
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- ☐ **11. ITERATION TERMINATING USING QUALITY INDEX CRITERIA OF TURBO CODES**
TEICHER, Haim / MOTOROLA, INC., PATENT COOPERATION TREATY APPLICATION,
Oct 2002
...output of either **SISO decoder** and not necessarily...Gaussian channel with **fading**, the log-likelihood...EsINO (3) For a **fading** channel, a corresponds to the **fading** amplitude. For a...the constituent **turbo decoder** is shown in FIG...
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- ☐ **12. PHY Proposal for 802.16 based on cable modem standards** [PDF-52K]
Nov 2000
1999-10-29 IEEE 802.16pc-99/23 0 Project IEEE 802.16 Broadband Wireless Access Working Group Title PHY Proposal for 802.16 based on cable modem standards Date Submitted 1999-10-29 Source Moshe Ran TelesciCOM 6 Machtesh St.
[http://grouper.ieee.org/groups/802/16/tg1/phy/contrib/...]
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- ☐ **13. IMPROVED TURBO DECODER 1**
BENEDETTO, Sergio / DRAKUL, Spase / MASERA, Guido / MONTORSI, Guido / PICCININI, Gianluca / ZAMBONI, Maurizio / LUCENT TECHNOLOGIES INC.,

PATENT COOPERATION TREATY APPLICATION, Sep 2000

IMPROVED TURBO DECODER 1 This invention relates to a decoder...ASICs.

Conventionally, a complete **turbo decoder** usually includes two kinds of blocks...in an increased throughput of the **SISO decoder**: in fact, if the adding of input...

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☐ **14. A Smart Implementation of Turbo Decoding for Improved Power Efficiency**

Jemibewon, Abayomi Oluwaseyi, Jul 2000


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☐ **15. STOPPING CRITERIA FOR ITERATIVE DECODING**

SHEN, Ba-Zhong / CAMERON, Kelly, B. / JAFFE, Steven, T. / BROADCOM CORPORATION, *PATENT COOPERATION TREATY APPLICATION*, May 2002


...MAP decoder or MAP **turbo decoder**. A soft output to...receives the output of **SISO decoder** 405. The converter...priori values for **SISO decoder** 405. **SISO decoder** 405 receives the...usual part of a **turbo decoder**. Converter 407 is...

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☐ **16. IMPROVED DECODING OF TURBO CODES USING DATA SCALING**

ABDULKADIR, Dinc / MOTOROLA INC., *PATENT COOPERATION TREATY APPLICATION*, Apr 2002

...diagram for a **turbo decoder** as is known in...diagram for a **SISO decoder** FIG. 6 shows simplified...to inputs of a **turbo decoder**. The scaling of...corresponds to the **fading** amplitude, Es...the constituent **SISO decoder** is shown in FIG...

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☐ **17. Iterative detection and decoding for wireless communications**

Valenti, Matthew C., Jan 2000

Thesis (Ph. D.)--Virginia Polytechnic Institute and State University, 1999. Title from electronic submission form. Vita. Abstract. Includes bibliographical references.

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Jemibewon, Abayomi Oluwaseyi., Jan 2000


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☐ **19. AREA EFFICIENT PARALLEL TURBO DECODING**

WANG, Zhongfeng / PARHI, Keshab, K. / REGENTS OF THE UNIVERSITY OF MINNESOTA, *PATENT COOPERATION TREATY APPLICATION*, Nov 2002

...Signal 123 input to **turbo decoder** 124 0 may include bits...see Fig. 2A). The **turbo decoder** 124 includes two soft-input...the first or second **SISO decoder**, (2) log likelihood...decoders 221 and 222 in **turbo decoder** 124. A detailed discussion...

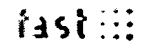
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☐ **20. Iterative Detection and Decoding for Wireless Communications**

Valenti, Matthew C, Jul 1999

Turbo codes are a class of forward error correction (FEC) codes that offer energy efficiencies close to the limits predicted by information theory. The features of turbo codes include parallel code concatenation, recursive convolutional encoding, ...

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1-25

- ☐ 1. **A novel iterative receiver for coded MIMO OFDM systems**
 Sumei Sun; Yan Wu; Yuan Li; Tjhung, T.T.;
[Communications, 2004 IEEE International Conference on](#)
 Volume 4, 20-24 June 2004 Page(s):2473 - 2477 Vol.4
 Digital Object Identifier 10.1109/ICC.2004.1312963
[AbstractPlus](#) | Full Text: [PDF\(359 KB\)](#) IEEE CNF
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 Tae Min Kim; Jae Hong Lee;
[Vehicular Technology Conference, 2003. VTC 2003-Spring. The 57th IEEE Semiannual](#)
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[AbstractPlus](#) | Full Text: [PDF\(380 KB\)](#) IEEE CNF
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 Koca, M.; Levy, B.C.;
[Wireless Communications, IEEE Transactions on](#)
 Volume 4, Issue 5, Sept. 2005 Page(s):2244 - 2255
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[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE JNL
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- ☐ 4. **A low-complexity iterative interference suppressor for coded aperiodic spreading systems**
 Der-Feng Tseng;
[Circuits and Systems, 2005. ISCAS 2005. IEEE International Symposium on](#)
 23-26 May 2005 Page(s):4505 - 4508 Vol. 5
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[AbstractPlus](#) | Full Text: [PDF\(168 KB\)](#) IEEE CNF
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- ☐ 5. **A novel soft-in soft-out detection algorithm for space-time coded OFDM over multi fading channels**
 Gallo, A.S.; Vitetta, G.M.;
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- ☐ 6. **Turbo space-time equalization of TCM for broadband wireless channels**

Koca, M.; Levy, B.C.;
[Wireless Communications, IEEE Transactions on](#)
Volume 3, Issue 1, Jan. 2004 Page(s):50 - 59
Digital Object Identifier 10.1109/TWC.2003.821204
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[AbstractPlus](#) | Full Text: [PDF\(522 KB\)](#) IEEE CNF
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8. **Differential space-time CDMA with turbo decoding**
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[Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE](#)
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10. **Iterative space-time soft interference cancellation for UMTS-FDD uplink**
Mottier, D.; Brunel, L.;
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[AbstractPlus](#) | [References](#) | Full Text: [PDF\(795 KB\)](#) IEEE JNL
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11. **Multistage Iterative Decoding With Complexity Reduction for Concatenated Space Codes**
Reial, A.; Wilson, S.G.;
[Communications, IEEE Transactions on](#)
Volume 53, Issue 8, Aug. 2005 Page(s):1300 - 1309
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12. **Iterative cyclic prefix reconstruction and channel estimation for a STBC OFDM system**
Hui-Chul Won; Gi-Hong Im;
[Communications Letters, IEEE](#)
Volume 9, Issue 4, April 2005 Page(s):307 - 309
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13. **Constellation mapping for space-time matrix modulation with iterative demodulation/decoding**
Yabo Li; Xiang-Gen Xia;
[Communications, IEEE Transactions on](#)
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 Ali Khalighi, M.; Helard, J.-F.;
[Signal Processing and Information Technology, 2005. Proceedings of the Fifth IEEE International Symposium on](#)
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[AbstractPlus](#) | Full Text: [PDF\(442 KB\)](#) IEEE CNF
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 Chang-Kyung Sung; Jihoon Kim; Inkyu Lee;
[Vehicular Technology Conference, 2004. VTC2004-Fall. 2004 IEEE 60th](#)
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 Dongming Wang; Junhui Zhao; Xiqi Gao; Xiaohu You; Woogoo Park; Yun Hee Kim;
[Wireless Communications and Networking Conference, 2004. WCNC. 2004 IEEE](#)
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